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L3: Entry 16 of 18 File: DWPI Feb 28, 1979

DERWENT-ACC-NO: 1979-60985B
DERWENT-WEEK: 197933

TITLE: Microbiological nisin prodn. - using specified Streptococcus lactis strain for high yield

INVENTOR: BULENKOV, G I; LITVINOVA, M N ; SILEVA, M N

PATENT-ASSIGNEE:

ASSIGNEE	CODE
PLANT PROTECTION	PLANR

PRIORITY-DATA:
1973SU-1980512 December 27, 1973

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 507055 A	February 28, 1979	N/A	000	N/A

INT-CL (IPC): C12D 9/00

ABSTRACTED-PUB-NO: SU 507055A
BASIC-ABSTRACT:

Streptococcus lactis 24-24 resistant to phages has been obtained by natural selection from less-active strain Streptococcus lactis 24 susceptible to attack by phages. The activity of the strain 24-24 in a 3:1 whey-milk hydrolysate is 4000-8000 units/ml. (strain 24 2400-4800 units/ml). It gives high yield of nisin.

TITLE-TERMS: MICROBIOLOGICAL NISIN PRODUCE SPECIFIED STREPTOCOCCUS LACTIS STRAIN HIGH YIELD

DERWENT-CLASS: B04 D16

CPI-CODES: B02-N; D05-C02;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
V140 V143 N130 P220 M720 M421 M902

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L3: Entry 14 of 18 File: DWPI May 10, 1996

DERWENT-ACC-NO: 1997-050308
DERWENT-WEEK: 199705

TITLE: A new strain of Streptococcus lactis, a producer of the bacteriocin nisin - gives a higher rate of nisin prodn. than the previous Str. lactis 1800 strain

INVENTOR: BIRYUKOV, V V; KRASNIKOVA, L V ; LITVINOVA, M N

PATENT-ASSIGNEE:

ASSIGNEE	CODE
PROTEINS BIOSYNTHESIS RES INST	PROI

PRIORITY-DATA:
1994RU-0025647 July 8, 1994

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RU 2059716 C1	May 10, 1996	N/A	003	C12N001/20

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
RU 2059716C1	July 8, 1994	1994RU-0025647	N/A

INT-CL (IPC): C12N 1/20; C12P 1/04; C12N 1/20; C12R 1/46

ABSTRACTED-PUB-NO: RU 2059716C
BASIC-ABSTRACT:

A strain of Streptococcus lactis 58 VKPM V-6795, a producer of the bacteriocin nisin, is new.

In an example, strain Str. lactis 58 was introduced from an ampoule into a test tube with sterile defatted milk and the contents were incubated at 30 deg. C for 24 hrs. Using the inoculate obtd., the mixt. was fermented using a nutrient medium of % compsn.: 4 dry milk whey, 5 hydrolysed milk, 1 molasses, distilled water to 1 l, culturing temp. 30 deg. C, pH 6.8, with regulation of the pH by continuous feeding of 20% alkali. 5% Inoculant was added to the prepd. medium and fermentation was carried out over 9 hrs. Continuous culturing was achieved at a dilution rate of D = 0.45 hr.-1, and nisin biosynthesis was stabilised at the level A = 5600 ME/cm3. The productivity of the continuous process was P = AxD = 2520 ME/cm3. hr., as against 1800 ME/cm3. hr. with the previous Str. lactis strain 1800.

USE - The strain is useful in the food, dairy, medical and microbiological industries.

ADVANTAGE - The new strain gives a high rate of nisin prodn. in controlled continuous culturing, i.e. 2100-2520 ME/cm3 per hr.

CHOSEN-DRAWING: Dwg.0/0